

We claim:

- 1 1. A magnetic-tape cartridge, comprising:
2 a cartridge case having orthogonal walls in parallelepiped configuration and a slanted
3 wall between two of the orthogonal walls; and
4 a memory device connected to an antenna capable of communication through a
5 magnetic field propagated from the slanted wall along a plurality of transmission axes.
- 1 2. The cartridge of Claim 1, wherein said antenna is positioned at about 45 degrees with
2 respect to said two of the orthogonal walls of the case.
- 1 3. The cartridge of Claim 1, wherein said slanted wall connects a rear wall and a bottom
2 wall of the case.
- 1 4. The cartridge of Claim 2, wherein said slanted wall connects a rear wall and a bottom
2 wall of the case.
- 1 5. The cartridge of Claim 1, wherein said antenna is adjacent to an interior surface of the
2 slanted wall.

1 6. The cartridge of Claim 4, wherein said antenna is adjacent to an interior surface of the
2 slanted wall.

1 7. The cartridge of Claim 1, wherein said antenna is adjacent to an exterior surface of the
2 slanted wall.

1 8. The cartridge of Claim 6, wherein said antenna is adjacent to an exterior surface of the
2 slanted wall.

1 9. The cartridge of Claim 1, wherein said slanted wall connects a rear wall and a side wall
2 of the case.

1 10. The cartridge of Claim 2, wherein said slanted wall connects a rear wall and a side wall
2 of the case.

1 11. A system for communicating with a memory chip in a magnetic-tape cartridge,
2 comprising:

3 a case for said cartridge having orthogonal walls in parallelepiped configuration and
4 a slanted wall between two of the orthogonal walls;

5 a chip antenna connected to said memory device and capable of communication
6 through a magnetic field propagated from the slanted wall; and

7 a reading antenna connected to an external reading device in magnetic-field
8 communication with the chip antenna.

1 12. The system of Claim 11, wherein said reading antenna in operation is positioned within
2 a space demarcated by a corner defined by an intersection between planes extending from said
3 two of the orthogonal walls.

1 13. The system of Claim 11, wherein said chip antenna is positioned at about 45 degrees
2 with respect to said two of the orthogonal walls of the case.

1 14. The system of Claim 11, wherein said slanted wall is placed between a rear wall and a
2 bottom wall of the case.

1 15. The system of Claim 11, wherein said chip antenna is adjacent to an interior surface of
2 the slanted wall.

1 16. The system of Claim 11, wherein said chip antenna is adjacent to an exterior surface of
2 the slanted wall.

1 17. The system of Claim 16, further including a protective coating over the chip antenna.

1 18. A method for transmitting data between a memory device in a magnetic-tape cartridge
2 and an external reading device, comprising the steps of:
3 providing a cartridge case having orthogonal walls in parallelepiped configuration and
4 a slanted wall between two of said orthogonal walls;
5 connecting the memory device to a chip antenna capable of communication through
6 a magnetic field propagated from the slanted wall;
7 providing a reading antenna connected to an external reading device in magnetic-field
8 communication with the chip antenna; and
9 transmitting data between said chip and reading antennas through said magnetic field
10 propagated from the slanted wall.

1 19. The method of Claim 18, wherein said reading antenna is positioned within a space
2 demarcated by a corner defined by an intersection between planes extending from said two
3 of the orthogonal walls.

1 20. The method of Claim 18, wherein said chip antenna is positioned at about 45 degrees
2 with respect to said two of the orthogonal walls.

1 21. The method of Claim 18, wherein said slanted wall is placed between a rear wall and
2 a bottom wall of the case.

1 22. The method of Claim 18, wherein said chip antenna is adjacent to an interior surface of
2 the slanted wall.

1 23. The method of Claim 18, wherein said chip antenna is adjacent to an exterior surface
2 of the slanted wall.